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# A Table of the Values of $m$ Corresponding to Given Values of $\phi(m)$ .\*

BY R. D. CARMICHAEL.†

$\phi(m)$	$m$			$\phi(m)$	$m$			$\phi(m)$	$m$		
1	1	2		36	37	57	63	72	73	91	95
2	3	4	6		74	76	108		111	117	135
4	5	8	10		114	126			146	148	152
	12			40	41	55	75		182	190	216
6	7	9	14		82	88	100		222	228	234
	18				110	132	150		252	270	
8	15	16	20	42	43	49	86	78	79	158	
	24	30			98			80	123	164	165
10	11	22		44	69	92	138		176	200	220
12	13	21	26	46	47	94			246	264	300
	28	36	42	48	65	104	105		330		
16	17	32	34		112	130	140	82	83	166	
	40	48	60		144	156	168	84	129	147	172
18	19	27	38		180	210			196	258	294
	54			52	53	106		88	89	115	178
20	25	33	44	54	81	162			184	230	276
	50	66		56	87	116	174	92	141	188	282
22	23	46		58	59	118		96	97	119	153
24	35	39	45	60	61	77	93		194	195	208
	52	56	70		99	122	124		224	238	260
	72	78	84		154	186	198		280	288	306
	90			64	85	128	136		312	336	360
28	29	58			160	170	192		390	420	
30	31	62			204	240		100	101	125	202
32	51	64	68		67	134			250		
	80	96	102	66	71	142		102	103	206	
	120			70							

\*The object of this table is to give all values of  $m$  corresponding to every possible value of Euler's  $\phi$ -function of  $m$  up to  $\phi(m) = 1000$ . The table has been double checked up to  $\phi(m) = 500$ . The greater portion of the succeeding part of the table may be derived from this part in a simple way. It is therefore believed that but very few errors will be found in the table.

†Read before the American Mathematical Society (Chicago), March 30, 1907.

$\phi(m)$	$m$			$\phi(m)$	$m$			$\phi(m)$	$m$		
104	159	212	318	160	187	205	328	216	247	259	327
106	107	214			352	374	400		333	351	399
108	109	133	171		410	440	492		405	436	494
	89	218	266		528	600	660		518	532	648
	24	342	378	162	163	243	326		654	666	684
					486				702	756	798
110	121	242		164	249	332	498		810		
112	113	145	226	166	167	334		220	253	363	484
	232	290	348	168	203	215	245		506	726	
116	177	236	354		261	344	392	222	223	446	
120	143	155	175		406	430	490	224	339	435	452
	183	225	231		516	522	588		464	580	678
	244	248	286	172	173	346			696	870	
	308	310	350	176	267	345	356	226	227	454	
	366	372	396		368	460	534	228	229	458	
	450	462			552	690		232	233	295	466
126	127	254		178	179	358			472	590	708
128	255	256	272	180	181	209	217	238	239	478	
	320	340	384		279	297	362	240	241	287	305
	408	480	510		418	434	558		325	369	385
130	131	262			594				429	465	482
132	161	201	207	184	235	376	470		488	495	496
	268	322	402		564				525	572	574
	414			190	191	382			610	616	620
136	137	274		192	193	221	291		650	700	732
138	139	278			357	386	388		738	744	770
140	213	284	426		416	442	448		792	858	900
144	185	219	273		476	520	560		924	930	990
	285	292	296		576	582	612		1050		
	304	315	364		624	672	714	250	251	502	
	370	380	432	196	720	780	840	252	301	381	387
	438	444	456	198	197	394			441	508	602
	468	504	540	200	199	398			762	774	882
	546	570	630		275	303	375	256	257	512	514
					404	500	550		544	640	680
148	149	298		204	606	750			768	816	960
150	151	302		208	309	412	618		1020		
156	157	169	237		265	424	530	260	393	524	786
	314	316	338	210	636			262	263	526	
	474			212	211	422					
					321	428	642				

$\phi(m)$	$m$			$\phi(m)$	$m$			$\phi(m)$	$m$		
264	299	335	483	320	425	561	615	366	367	734	
	536	598	644		656	704	748	368	705	752	940
	670	804	828		800	820	850		1128	1410	
	966				880	984	1056	372	373	746	
268	269	538			1122	1200	1230	378	379	758	
270	271	542			1320			380	573	764	1146
272	289	411	548	324	489	513	567	382	383	766	
	578	822			652	972	978	384	485	579	595
276	277	329	417		1026	1134			663	765	772
	423	554	556	328	415	664	830		776	832	884
	658	834	846		996				896	952	970
280	281	319	355	330	331	662			1040	1120	1152
	562	568	638	332	501	668	1002		1158	1164	1190
	710	852		336	337	377	609		1224	1248	1326
282	283	566			645	674	688		1344	1428	1440
288	323	365	455		735	754	784		1530	1560	1680
	459	555	584		812	860	980	388	389	778	
	585	592	608		1032	1044	1176		591	788	1182
	646	728	730		1218	1290	1470	392	597	603	621
	740	760	864	342	361	722		396	794	796	874
	876	888	910	344	519	692	1038		938	1194	1206
	912	918	936	346	347	694			1242		
	1008	1080	1092	348	349	413	531	400	401	451	505
	1110	1140	1170		698	826	1062		802	808	825
	1260			352	353	391	445		902	1000	1010
292	293	586			706	712	736		1100	1212	1500
294	343	686			782	890	920		1650		
296	447	596	894		1068	1104	1380	408	409	515	818
300	341	453	604	356	537	716	1074		824	1030	1236
	682	906		358	359	718		416	795	848	1060
306	307	614		360	403	407	427		1272	1590	
310	311	622			475	543	549	418	419	838	
312	313	371	395		627	651	675	420	421	473	497
	471	477	507		693	724	806		539	633	639
	626	628	632		814	836	854		842	844	946
	676	742	790		868	950	1086		994	1078	1266
	942	948	954		1098	1116	1188		1278		
	1014				1254	1302	1350				
316	317	634			1386						

[illegible]

$\phi(m)$	$m$			$\phi(m)$	$m$			$\phi(m)$	$m$		
576	577	629	679	630	631	1262		676	677	1354	
	873	969	1071	632	951	1268	1902	682	683	1366	
	1095	1154	1168	636	749	963	1498	684	1083	1444	2166
	1184	1216	1258		1926			688	865	1384	1730
	1292	1358	1365	640	641	697	935		2076		
	1456	1460	1480		1275	1282	1312	690	691	1382	
	1520	1728	1746		1394	1408	1496	692	1041	1388	2082
	1752	1776	1820		1600	1640	1700	696	767	1047	1239
	1824	1836	1872		1760	1870	1968		1396	1534	1652
	1938	2016	2142		2112	2244	2400		2094	2124	2478
	2160	2184	2190		2460	2550	2640	700	701	781	1402
	2220	2280	2340	642	643	1286			1562		
	2520	2730		646	647	1294		704	1059	1173	1335
580	649	1298		648	703	763	815		1412	1424	1472
584	879	1172	1758		981	999	1053		1564	1780	1840
586	587	1174			1197	1215	1304		2118	2136	2208
588	1029	1372	2058		1406	1526	1630		2346	2670	2760
592	593	745	1186		1944	1956	1962	708	709	1418	
	1192	1490	1788		1998	2052	2106	712	895	1432	1790
598	599	1198			2268	2394	2430		2148		
600	601	671	707	652	653	1306		716	1077	1436	2154
	755	775	875	656	1245	1328	1660	718	719	1438	
	909	1023	1125		1992	2490		720	779	793	803
	1202	1208	1342	658	659	1318			905	925	1001
	1364	1414	1510	660	661	713	737		1045	1085	1107
	1550	1750	1812		847	993	1089		1209	1221	1281
	1818	2046	2250		1322	1324	1426		1287	1395	1425
606	607	1214			1474	1694	1986		1448	1485	1558
612	613	721	921		2178				1575	1586	1606
	927	1226	1228						1612	1628	1672
	1442	1842	1854	664	835	1336	1670		1708	1736	1810
616	617	667	1234		2004				1850	1900	2002
	1334			672	673	731	791		2090	2170	2172
618	619	1238			833	1011	1015		2196	2214	2232
620	933	1244	1866		1017	1131	1305		2376	2418	2442
624	689	785	845		1346	1348	1376		2508	2562	2574
	939	1113	1185		1462	1508	1568		2604	2700	2772
	1252	1256	1264		1582	1624	1666		2790	2850	2970
	1352	1378	1484		1720	1960	2022		3150		
	1570	1580	1690		2030	2034	2064				
	1878	1884	1896		2088	2262	2352	726	727	1454	</

$\phi(m)$	$m$			$\phi(m)$	$m$			$\phi(m)$	$m$		
736	799	1504	1598	800	1025	1203	1353	864	949	1235	1295
	1880	2256	2820		1515	1604	1616		1299	1377	1443
738	739	1478			1804	2000	2020		1533	1635	1665
742	743	1486			2050	2200	2406		1732	1744	1755
744	1119	1492	2238		2424	2706	3000		1898	1924	1976
750	751	1502			3030	3300			1995	2044	2072
756	757	817	889	808	809	1618			2128	2180	2470
	931	1137	1143	810	811	1622			2590	2592	2598
	1161	1323	1514	812	841	1682			2616	2628	2660
	1516	1634	1778	816	959	1227	1233		2664	2736	2754
	1862	2274	2286		1545	1636	1648		2808	2886	2964
	2322	2646			1918	2060	2454		3024	3066	3108
					2466	2472	3090		3192	3240	3270
760	761	955	1522	820	821	913	1642		3276	3330	3420
	1528	1910	2292		1826				3510	3780	3990
764	1149	1532	2298	822	823	1646					
768	769	965	1105	826	827	1654		876	877	1317	1754
	1455	1538	1544	828	829	893	973		1756	2634	
	1552	1664	1768		1251	1269	1658	880	881	943	979
	1792	1904	1930		1786	1946	2502		1043	1265	1725
	1940	2080	2210		2538				1762	1815	1886
	2240	2304	2316	832	901	1696	1802		1936	1958	2024
	2328	2380	2448		2120	2544	3180		2086	2300	2420
	2496	2652	2688	836	1257	1676	2514		2530	2904	3036
	2856	2880	2910	838	839	1678		882	3450	3630	
	3060	3120	3360	840	899	923	1055		883	1766	
772	773	1546			1075	1225	1263	884	1329	1772	2658
776	1167	1556	2334		1419	1491	1617	886	887	1774	
780	869	917	1179		1684	1688	1798	888	1115	1341	1784
	1738	1834	2358		1846	1892	1988		2230	2676	2682
784	985	1576	1970		2110	2150	2156	896	1347	1479	1695
	2364				2450	2526	2532		1796	1808	1856
786	787	1574			2556	2838	2982		1972	2260	2320
792	851	871	995		3234				2694	2712	2784
	1191	1311	1407	848	1605	1712	2140		2958	3390	3480
	1449	1588	1592		2568	3210		900	1057	1359	2114
	1702	1742	1748	852	853	1706			2718		
	1876	1990	2382	856	857	1714		904	1135	1816	2270
	2384	2412	2484	858	859	1718			2724		
	2622	2814	2898	860	1293	1724	2586	906	907	1814	
796	797	1594		862	863	1726		910	911	1822	

$\phi(m)$	$m$			$\phi(m)$	$m$			$\phi(m)$	$m$		
912	1145	1371	1828	940	941	1882		966	967	1934	
	1832	2290	2742	946	947	1894		970	971	1942	
	2748			952	953	1195	1906	972	1141	1461	1539
918	919	1838			1912	2390	2868		1701	1948	2282
920	1175	1383	1551	956	1437	1916	2874		2916	2922	3078
	1844	2068	2350	960	1037	1067	1205		3402		
	2766	3102			1435	1581	1599	976	977	1954	
924	989	1127	1389		1683	1845	1928	980	1473	1964	2946
	1852	1978	2254		1952	1984	2074	982	983	1966	
	2778				2108	2132	2134	984	1079	1743	2158
928	929	1003	1165		2145	2288	2296		2324	2988	3486
	1858	1864	1888		2410	2440	2464	990	991	1982	
	2006	2330	2360		2480	2600	2800	996	997	1169	1497
	2796	2832	3540		2860	2870	2892		1503	1994	1996
930	961	1922			2928	2952	2976		2338	2994	3006
932	1401	1868	2802		3080	3162	3168	1000	1111	1255	1375
936	937	1007	1027		3198	3366	3432		1875	2008	2222
	1099	1183	1413		3444	3600	3660		2500	2510	2750
	1431	1521	1659		3690	3696	3720		3012	3750	
	1874	2014	2054		3900	3960	4200				
	2198	2212	2366		4290	4620					
	2826	2844	2862								
	3042	3318									